Polypropylene hot melt adhesive compsn. - contg. amorphous polypropylene and plasticiser for strong adhesion to polyolefin plastics
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Patent Family

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Patent Details

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Abstract:
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Compsn. contains (A) amorphous polypropylene and (B) plasticiser. (A) has 80-160 deg.C of softening point. (B) is naphthene process oil, paraffin process oil, aroma process oil, liq. polybutene, liq. polyisoprene, liq. polybutadiene, liq. isobutylene and their mixt. (A) is 70-98 wt. parts and (B) is 2-30 wt. parts. The compsn. is prepd. by melt mixing.

USE/ADVANTAGE - It has strong adhesion for glue resistant polyolephin plastics such as polypropylene, ethylene, and propylene copolymer, by e.g. attaching polyethylene parts to polypropylene container, constructing polyethylene and polypropylene container and sticking together polyethylene sheets and polypropylene non-woven fabric. It also has heat resistant adhesive effect and processability.

In an example, 95 wt.pts. of MAP (RTM, amorphous atactic polypropylene), 5 wt.pts. of SHELLFLEX 371JY (RTM, plasticiser) and IRGANOX 1010 (RTM, antioxidant) are melt mixed to give hot melt adhesive. It has 5.3 kg/25 mm T-peeling strength (open time 5 sec.) and 110 deg.C of heat resistance of adhesive as opposed to 1.5 and 90 using 60 wt. parts of MAP and 40 wt. parts of NISSEKI POLYBUTENE HV-300 (RTM, plasticiser).

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